

AMENDMENTS TO THE CLAIMS:

Claim 1. (Currently amended) A heart cam and damper unit comprising:

a base member having a fixed cylindrical portion and a stopper portion;

a rotating member having a movable cylindrical portion which is rotatably ~~rotatably~~ assembled to said fixed cylindrical portion with a viscous fluid interposed between said movable cylindrical portion and said fixed cylindrical portion, and a pinion gear which rotates integrally with said movable cylindrical portion;

a heart cam member which is rotatably ~~rotatably~~ fitted around an outer periphery of an outwardly located one of said fixed cylindrical portion and said movable cylindrical portion; and

urging means which is interposed between said base member and said heart cam member, and is adapted to rotatably ~~rotatably~~ urge said heart cam member toward said stopper portion of said base member.

Claim 2. (Currently amended) An opening/closing controlling device interposed between a main body portion and a movable portion which undergoes opening and closing action with respect to said main body portion and is constantly urged in an opening direction, so as to impart locking and damping action with respect to said movable portion, wherein

a heart cam and damper unit, which comprises: a base member having a fixed cylindrical portion and a stopper portion; a rotating member having a movable cylindrical portion which is rotatably ~~rotatably~~ assembled to said fixed cylindrical portion with a viscous fluid interposed between said movable cylindrical portion and said fixed cylindrical portion, and a pinion gear which rotates integrally with said movable cylindrical portion; a heart cam

member which is rotatably ~~rotatably~~ fitted around an outer periphery of an outwardly located one of said fixed cylindrical portion and said movable cylindrical portion; and urging means which is interposed between said base member and said heart cam member, and is adapted to rotatably ~~rotatably~~ urge said heart cam member toward said stopper portion of said base member, is installed on one of said main body portion and said movable portion through said base member,

a gear, which is meshed with said pinion gear, is provided which undergoes relative movement with respect to said heart cam and damper unit in conjunction with a movement of said movable portion, and

a pin member is provided which is engaged with and disengaged from said heart cam member in conjunction with the movement of said movable member.

Claim 3. (Currently amended) The opening/closing controlling device according to claim 2, wherein

said main body portion is a housing,

said movable portion is a cover which is rotatably ~~rotatably~~ mounted to said housing so as to open and close an opening of said housing,

said heart cam and damper unit is mounted to said housing through said base member,

said gear which is interlocked with a rotation of said cover is meshed with said pinion gear of said heart cam and damper unit, and

said pin member which moves in conjunction with the rotation of said cover is engaged with and disengaged from said heart cam member.

Claim 4. (Original) The opening/closing controlling device according to claim 2,
wherein

said main body portion is a casing,

said movable portion is a drawer member which is slidably drawn into and out of said casing,

said heart cam and damper unit is mounted on one of said casing and said drawer member through said base member,

a rack, which is meshed with said pinion gear, undergoing relative movement with respect to said heart cam and damper unit in conjunction with the movement of said movable portion is provided on another one of said casing and said drawer member, and

a pin member is provided which is engaged with and disengaged from said heart cam.

Claim 5. (Currently amended) A heart cam and damper unit comprising:

a base member having a fixed cylindrical portion and a stopper portion;

a rotating member having a movable cylindrical portion which is rotatably ~~rotatably~~ assembled to said fixed cylindrical portion with a viscous fluid interposed between said movable cylindrical portion and said fixed cylindrical portion, and a pinion gear which rotates integrally with said movable cylindrical portion;

a heart cam member which is rotatably ~~rotatably~~ fitted around said fixed cylindrical portion; and

a spring which is interposed between said base member and said heart cam member, and is adapted to rotatably ~~rotatably~~ urge said heart cam member toward said stopper portion of said base member.

Claim 6. (Original) The heart cam and damper unit according to claim 5,
wherein said heart cam member is supported between said base member and an
annular portion of said movable cylindrical portion.

Claim 7. (Currently amended) The heart cam and damper unit according to claim 6,
wherein a circular ~~first~~ recessed portion is provided on a surface of said heart cam
member which faces said base member, and
a part of said spring is fit in said ~~first~~ recessed portion.

Claim 8. (Currently amended) The heart cam and damper unit according to claim 6,
wherein a circular ~~second~~ recessed portion is provided on a surface of said base
member which faces said heart cam member, and
a part of said spring is fit in said ~~second~~ recessed portion.

Claim 9. (Currently amended) The heart cam and damper unit according to claim 7,
wherein a circular ~~second~~ recessed portion is provided on a surface of said base
member which faces said heart cam member, and
a part of said spring is fit in said ~~second~~ recessed portion of said base member.

Claim 10. (Currently amended) The heart cam and damper unit according to claim 5,
wherein said base member has a fixing portion for fixing ~~said opening/closing~~
~~controlling device~~ to a member to be fixed, and
said heart cam member is disposed not to overlap with said fixing portion.

Claim 11. (Currently amended) The heart cam and damper unit according to claim 6, wherein said base member has a fixing portion for fixing ~~said opening/closing controlling device~~ to a member to be fixed, and said heart cam member is disposed not to overlap with said fixing portion.

Claim 12. (Currently amended) The heart cam and damper unit according to claim 7, wherein said base member has a fixing portion for fixing ~~said opening/closing controlling device~~ to a member to be fixed, and said heart cam member is disposed not to overlap with said fixing portion.

Claim 13. (Currently amended) The heart cam and damper unit according to claim 8, wherein said base member has a fixing portion for fixing ~~said opening/closing controlling device~~ to a member to be fixed, and said heart cam member is disposed not to overlap with said fixing portion.

Claim 14. (Currently amended) The heart cam and damper unit according to claim 9, wherein said base member has a fixing portion for fixing ~~said opening/closing controlling device~~ to a member to be fixed, and said heart cam member is disposed not to overlap with said fixing portion.

Claim 15. (New) The unit of claim 1, wherein said heart cam member comprises a ring that is rotatably fitted around one of said fixed cylindrical portion and said movable cylindrical portion.

Claim 16. (New) The unit of claim 15, wherein said ring and one of said fixed cylindrical portion and said movable cylindrical portion define a gap between them.

Claim 17. (New) The unit of claim 1, wherein said fixed cylindrical portion comprises an outer fixed cylindrical portion and an inner fixed cylindrical portion and wherein said movable cylindrical portion comprises an outer movable cylindrical portion and an inner movable cylindrical portion.

Claim 18. (New) The unit of claim 1, wherein said base member comprises a central shaft with an annular enlarged diameter portion and wherein said rotating member comprises a recess with an annular groove receiving said annular enlarged diameter portion.

Claim 19. (New) The unit of claim 1, wherein said urging means also urges said heart cam member to abut against said rotating member.

Claim 20. (New) The unit of claim 1, wherein said rotating member and said heart cam member rotate about said base member about a common axis of rotation.